TTranslation

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

•	(2 0 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				
Applicant's or agent's file reference 7510163-SUN	FOR FURTHER ACTION	ON S	ee Form PCT/IPEA/416		
	International filing date (d	lay/month/year)	Priority date (day/month/year)		
nternational application No. PCT/CN2005/002257	20 Dec.2005(2		22 Apr.2005(22.04.2005)		
	TPC) or national classification and I				
H01J65/04(2006.01)i	•				
•					
	· · · · · · · · · · · · · · · · · · ·				
Applicant	•				
Li,Jin		atablished by this Inter	mational Preliminary Examining Authority		
1. This report is the international	al preliminary examination report, e tted to the applicant according to Ar	ticle 36.	mational Preliminary Examining Authority		
		sheets, including thi	is cover sheet.		
2. This REPORT consists of a					
3. This report is also accompan	•				
a. 🛛 (sent to the applica	nt and to the International Bureau)	a total of 4	sheets, as follows:		
sheets of the d	escription, claims and/or drawings	which have been amen Authority (see Rule 7)	nded and are the basis of this report and/o 0.16 and Section 607 of the Administrative		
• · · · · · · · · · · · · · · · · · · ·					
	supersede earlier sheets, but which	this Authority conside	rs contain an amendment that goes beyon item 4 of Box No. I and the Supplemente		
the disclosure	in the international application as	filed, as indicated in	item 4 of Box No. I and the Supplemente		
Box.	national Bureau only) a total of (indi	cate type and number of	of electronic carrier(s))		
Relating to Sequer	nce Listing (see Section 802 of the A	Administrative Instructi	ions).		
4. This report contains indica	tions relating to the following items				
	is of the report				
D Paralle II Prio	. ritu				
Box No. II Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
Tool	Lock of unity of invention				
Dox No. V Reas	decrease under Article 35(2) with regard to novelty, inventive step or industrial applicability;				
Box No. V Reasoned statement under Autolo 35(c) what together the citations and explanations supporting such statement					
4	tain documents cited				
	min defects in the international appl				
1		bservations on the international application			
Z 2011.10		Date of completion o	f this report		
Date of submission of the demand 17 Apr.2006 (17.04.2006)			15 Aug.2007(15.08.2007)		
		1 _			
Name and mailing address of the	he IPEA/CN	Authorized officer	-ley, Shipap		
The Court Intellectual Pro	operty Office, the P.R.China, ge, Haidian District, Beijing, China		ED TE		
6 Xitucheng Ka., Jimen Bridg	,	l	11, 1, 19 -11		
Facsimile No. 86-10-620194	00088	Telephone No. 620	083429		

Form PCT/IPEA/409 (cover sheet) (April 2007)

International application No. PCT/CN2005/002257

vas filed	
vas filed , whic	ch is the language of a
	·
(a))	ļ
and/or 55.3(a))	
is report is based on (replacement si le 14 are referred to in this report a	heets which have been furnished s "originally filed" and are not
	as originally filed/furnished
received by this Authority on	
_	
	
•	the Elect/Aveniched
	as originally filed/furnished
as amended (together wi	th any statement)under Article 19
received by this Authority on	
	as originally filed/furnished
	_ as originally
received by this Authority on	
received by this Authority on	
lemental Box Relating to Sequence	Listing.
	•
).	<u>.</u>
closure as fried, as indicated in the	
	
	
c.A.	take authorized by an notified to t
5)): he rectification of an obvious mist rked "superseded."	take authorized by or notified to the
	(a)) and/or 55.3(a)) is report is based on (replacement sile 14 are referred to in this report a. received by this Authority on lemental Box Relating to Sequence

International application No. PCT/CN2005/002257

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
Statement: Novelty (N)	Claims Claims	1-9 none	YES NO		
Inventive step (IS)		none 1-9	YES NO		
Industrial applicabil	lity (IA) Claims		YES NO		

Citations and explanations (Rule 70.7)

Cited documents: D1: CN1055349C D2: CN2297797Y

1. Novelty

- 1) Claim 1: D1 is regarded as being the closest prior art, and does not explicitly or implicitly disclose the following technical features "the cavum lamp body can be aerated/ deaerated". Thus the claim 1 meets the criteria set out in PCT Article 33(2).
 - 2) Claims 2-9 subjected to the claim 1 meet the criteria set out in PCT Article 33(2) as well.

2. Inventive Step

1) Claim 1: D1(see the description: page 3 line 6- page 7 line 6, figure 1) discloses the following features: a non-filament closed ring type gas discharge lamp 1, wherein a through hole for mounting a ferrite core 2 is set on its closed cavum lamp body and a fluorescent coating is coated inside the cavum lamp body. The only difference between them is that D1 does not disclose the feature "the cavum lamp body can be aerated/ deaerated". However D2 (see the description: page 2 line 18- page 3 line 5, figure 1) discloses the feature "the cavum lamp body 5 includes an aeration/ deaeration pipe 11", which can solve the same problem as that to be solved by the distinguishing feature. It would be obvious for a skilled person to apply the teaching of D2 to D1 and arrive at the subject-matter of claim 1, without exercising an inventive step. Therefore the subject-matter of claim 1 does not involve an inventive step, and does not meet the criteria set out in PCT Article 33(3).

Answering to the opinions stated by the applicant: (-) The skilled person can't directly arrive at the technique effects mentioned in the opinion statement according to the subject-matter of the claim 1; (二) That "the non-filament fluorescence lamp can be made" mentioned in D1 (see the description: page 3 line 4) proves that a fluorescent coating is necessarily coated inside the cavum lamp body; (=) "Deaeration pipe 11" mentioned in D2 is necessarily a pipe that can be aerated and deaerated. Because of the above-mentioned three points, the examiner can't accept the opinions stated by the applicant.

2) Claims 2-4,9: D2 (figure 1) discloses the additional technical features of the dependent claims 2-4,9: a little glass tube 12 and an aeration/ deaeration pipe 11 communicated with the lamp body cavum 5;

Claims 5-8: their additional technical features are respectively simple changes of the number and location of the through hole and the shape of the lamp body, the skilled person can select them in according with conventional knowledge, without the exercise of inventive skill.

Therefore the subject-matter of claims 2-9 do not involve an inventive step, and do not meet the criteria set out in PCT Article 33(3).

3. Industrial Applicability

The invention of claims 1-9 are industrially applicable in the technical field of the lighting equipment and thus meet the requirements of PCT Article 33(4).

International application No.
PCT/CN2005/002257

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

In the invention, instead of the conventional bulb with filament, the fluorescent power inside the magnetic energy bulb is activated by a magnetic body 4 through a through hole 2 on the lamp body to make the magnetic energy bulb illuminate and light, consequently to solve the technical problem of improvement in service life. But the essential technical feature "the magnetic body 4" for solving the technical problem is not mentioned in the claim 1, so the claim 1 is not complied with PCT Article 6.

Form PCT/IPEA/409 (Box No. VIII) (April 2007)

International application No. PCT/CN2005/002257

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of Box No. I, Item No. 4:

- Pages 1-3 in the description and claims 1-10 submitted by the applicant according to PCT Aticle 34 on 17 Apr.2006(17.04.2006) go beyond the disclosure in the international application as filed and fail to meet the requirements of PCT Article 34(2)(b). The detailed reasons are as follows:
- 1. Claim 1: 1) "magnetic energy generator" is a generic concept not described in the initial international application, it includes the magnet described in the initial description and any other devices that can produce magnetic energy; 2) that "Hg is housed inside the lamp body cavum", for a person skilled in the art, can't be determined unambiguously according to the contents "Hg is housed inside the little glass tube 5" and "the little glass tube 5 extends to the inside of the lamp body cavum" described in the initial description; Therefore the claim 1 goes beyond the disclosure in the international application as filed and fails to meet the requirements of PCT Article 34(2)(b).
- 2. Claims 2-4: its additional features aren't described in the initial international application, and for a person skilled in the art, can't be determined unambiguously according to the contents described in the initial description. Therefore the claims 2-4 go beyond the disclosure in the international application as filed and fail to meet the requirements of PCT Article 34(2)(b).
- 3. Claims 5-10 are all the dependent claims subjected to the claim 1. Because the claim 1 goes beyond the disclosure in the international application as filed, claims 5-10 go beyond the disclosure in the international application as filed and fail to meet the requirements of PCT Article 34(2)(b) as well.
- 4. Besides the above-mentioned, the technique effects "life of the lamp is 16 times longer than that of energysaving lamp" and " the input power of the lamp can reach 3w~1500w" described in the background art of the description, for a person skilled in the art, can't be determined unambiguously according to the contents " life of the lamp is 16 times longer than that of the fluorescence lamp in the original invention" and "the input power can reach 6w~1500w" described in the initial description. Therefore the description goes beyond the disclosure in the international application as filed and fails to meet the requirements of PCT Article 34(2)(b).

Form PCT/IPEA/409 (Supplemental Box) (April 2007)